

Jacob Englert, M.S.

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EDUCATION

Emory University <i>Doctor of Philosophy (Ph.D.), Biostatistics</i>	Atlanta, GA Expected May 2025
<ul style="list-style-type: none">Thesis: Bayesian Tree-Based Methods for Estimating Heterogeneous Effects of Environmental Exposures	
Master of Science (M.S.), Biostatistics	May 2023
<ul style="list-style-type: none">GPA: 3.9/4.0Relevant Coursework: Machine Learning, Bayesian Statistics, Longitudinal and Multi-Level Data Analysis, Generalized Linear Models, Survival Analysis, Statistical Computing, Statistical Inference, Probability Theory	
Northern Kentucky University <i>Bachelor of Science (B.S.), Mathematics and Statistics</i>	Highland Heights, KY May 2019
<ul style="list-style-type: none">GPA: 4.0/4.0Relevant Coursework: Time-Series Analysis, Regression Analysis, Design and Analysis of Experiments, Econometrics	

PROFESSIONAL EXPERIENCE

Medpace <i>Data Analyst</i>	Cincinnati, OH Oct 2019 – Jul 2020
<ul style="list-style-type: none">Designed interactive Spotfire dashboards used to monitor patient safety and complianceConducted power simulations in R to study impacts of over-stratification in clinical trial designs	
Biostatistics Intern	Jan 2018 – Jun 2019
<ul style="list-style-type: none">Programmed tables and figures to summarize safety and efficacy endpointsRefined department-wide production programs and created SAS graphics templates	
Burkardt Consulting Center <i>Statistical Consultant</i>	Highland Heights, KY Aug 2018 – May 2019
<ul style="list-style-type: none">Advised academic and industrial clients on the formulation of research questions, data collection, and statistical methodology	

RESEARCH EXPERIENCE

Emory University <i>Research Assistant</i>	Atlanta, GA May 2021 – Present
<ul style="list-style-type: none">Advised the SPIRIT (Sharing the Patient's Illness Representations to Increase Trust) team on methods to model correlated survey data from a multi-site cluster randomized trial, and conducted these analyses using generalized linear mixed models and generalized estimating equations in R and SASEvaluated spatial smoothing and cluster detection techniques for opioid overdose records in Georgia using R	
Northern Kentucky University <i>Research Assistant</i>	Highland Heights, KY Jan 2017 – May 2019
<ul style="list-style-type: none">Applied singular spectrum analysis to discover trends in historical temperature data collected in Togo, AfricaCollaborated with Cincinnati Children's Hospital to develop a logistic regression model to predict the development of chronic kidney disease in children with acute kidney injuryInvestigated the effectiveness of Shinn weights to decipher Japanese naval messages from World War II	

SKILLS

- Programming Languages:** R, SAS, Python, SQL, C++ (Rcpp), Mathematica
- Software:** Spotfire, SPSS, JMP, Minitab, Tableau, ArcMap, MS Office, Git, HPC systems
- Certifications:** SAS Certified Base Programmer for SAS 9

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TEACHING EXPERIENCE

Emory University

Teaching Assistant

- R Bootcamp for Epidemiology Fall 2023
- Applied Linear Models Spring 2022, Spring 2023
 - Guest Lecture: Poisson Regression
- Longitudinal and Multilevel Data Analysis Fall 2022
 - Guest Lecture: Bayesian Hierarchical Models
 - Guest Lecture: Simulation Studies in R
- Geographic Information Systems (GIS) Spring 2021, Fall 2021

Northern Kentucky University

Teaching Assistant

- Introduction to Statistical Methods Spring 2016 – Fall 2018

AWARDS

- *First Year Qualifying Exam Top Performer (2021)*, Dept. of Biostatistics and Bioinformatics, Emory University
- *Laney Graduate School Fellowship (2020)*, Laney Graduate School, Emory University
- *Outstanding Senior in Statistics (2019)*, Dept. of Mathematics and Statistics, Northern Kentucky University
- *Outstanding Senior in Mathematics (2019)*, Dept. of Mathematics and Statistics, Northern Kentucky University
- *Honorable Mention*, 2019 COMAP Mathematical Modeling Competition
- *Outstanding Poster Presentation*, 2019 Joint Mathematics Meetings, Mathematical Association of America
- *Honorable Mention*, 2018 Public Health Data Challenge, American Statistical Association
- *Outstanding Student Writing Award (2016)*, Dept. of English, Northern Kentucky University

ACTIVITIES

- Academic Tutoring, Emory University and Northern Kentucky University
- Scorekeeper, John O'Bryan Mathematics Competition, Northern Kentucky University
- Senator & Justice, Student Government Association, Northern Kentucky University

MEMBERSHIP

- American Statistical Association (Emory Chapter), Emory University